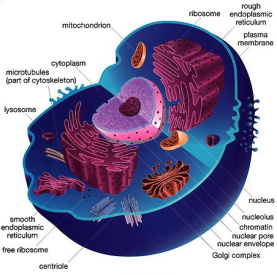
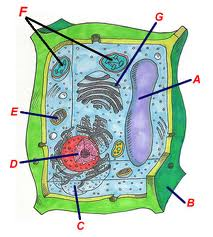
Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Project- Let’s Bake a Cell!

Goal:

- Create your assigned cell out of a cake with all structures shown and labeled

- Describe the functions of each cell structure

- Analyze either a specialized plant or animal cell and write a report containing information about the cell

- present your cell model as well as your report to the class

Your Assignment:

There are cells in the body that perform certain tasks. These are called specialized cells and are extremely important to the structure and function of the cell and organism.

You will be assigned either an animal or plant cell. Then, I will come around with a cup and you will choose a slip of paper with a specialized cell that corresponds with your type of cell. Example: If you are given the animal cell, you will choose an animal specialized cell to use for your report.

You will be working with a partner for this project. You will present your project o the class on the due date stated below. Between the two of you, you should create:

- ONE cell model

- ONE sheet of cell structures and functions

- ONE report of your specialized cell

Your type of cell for the cake model:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Your type of specialized cell for the report:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Research to be done:

You are free to use your textbook as well as the internet to find information about the cell you will model and your specialized cell. Some interesting information to find about your specialized cell could include:

- where in the organism is the cell found?

- what is this cells function?

- where in the organism is the cell produced?

- why is this cell important to the organism?

Your report on your specialized cell should be around 2 pages double spaced!

Your Cake Model:

- You will need to include the following structures in your model:

- nucleus

- mitochondria

- golgi apparatus

- ribosomes

- cytoplasm

- cell membrane (if animal cell)

- cell wall (if plant cell)

- smooth & rough endoplasmic reticulum

- chloroplasts (if plant cell)

- vacuoles

- lysosomes (if animal cell)

Be sure to LABEL each structure (a helpful tip is tape small pieces of paper with the name of the structure to toothpicks and stick into your cell).

On a separate sheet of paper have the name and description of the structure’s function in the cell.

Please be creative when creating your cake model of a cell. Points will be deducted if I do not see effort put into this project.

\*\*Remember EVERYTHING in the model must be edible!

Presentation:

You and your partner will present your cell model to the class and discuss the following:

- which cell you created a model of

- three characteristics of your cell

- three characteristics of your specialized cell report

Due Date:

Everyone will be presenting May 11th. You and your partner will have 2 work days in class to get your research completed. These days will be May 5th and May 7th. The baking of your cell model will be done outside of class.

-This project is worth 35 points total.